

# He-Xiang Deng

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

6,971  
citations

31  
h-index

74  
g-index

74  
ext. papers

8,389  
ext. citations

14.2  
avg, IF

5.96  
L-index

#	Paper	IF	Citations
64	Large-pore apertures in a series of metal-organic frameworks. <i>Science</i> , <b>2012</b> , 336, 1018-23	33.3	1425
63	Multiple functional groups of varying ratios in metal-organic frameworks. <i>Science</i> , <b>2010</b> , 327, 846-50	33.3	1399
62	Mapping of functional groups in metal-organic frameworks. <i>Science</i> , <b>2013</b> , 341, 882-5	33.3	349
61	Synthesis and characterization of metal-organic framework-74 containing 2, 4, 6, 8, and 10 different metals. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5881-3	5.1	303
60	Introduction of functionality, selection of topology, and enhancement of gas adsorption in multivariate metal-organic framework-177. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 2641-50	16.4	285
59	Metal-Organic Frameworks for High Charge-Discharge Rates in Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3916-3921	16.4	233
58	Photophysical pore control in an azobenzene-containing metal-organic framework. <i>Chemical Science</i> , <b>2013</b> , 4, 2858	9.4	208
57	Robust dynamics. <i>Nature Chemistry</i> , <b>2010</b> , 2, 439-43	17.6	208
56	A multifunctional metal-organic framework based tumor targeting drug delivery system for cancer therapy. <i>Nanoscale</i> , <b>2015</b> , 7, 16061-70	7.7	202
55	Covalent Organic Frameworks Linked by Amine Bonding for Concerted Electrochemical Reduction of CO <sub>2</sub> . <i>Chem</i> , <b>2018</b> , 4, 1696-1709	16.2	180
54	Extra adsorption and adsorbate superlattice formation in metal-organic frameworks. <i>Nature</i> , <b>2015</b> , 527, 503-7	50.4	176
53	Filling metal-organic framework mesopores with TiO for CO photoreduction. <i>Nature</i> , <b>2020</b> , 586, 549-554	50.4	165
52	Multivariate Metal-Organic Frameworks for Dialing-in the Binding and Programming the Release of Drug Molecules. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 14209-14216	16.4	160
51	Metal-organic frameworks for lithium ion batteries and supercapacitors. <i>Journal of Solid State Chemistry</i> , <b>2015</b> , 223, 109-121	3.3	155
50	Principles of Designing Extra-Large Pore Openings and Cages in Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6448-6455	16.4	146
49	Deciphering the Spatial Arrangement of Metals and Correlation to Reactivity in Multivariate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 13822-13825	16.4	133
48	Metal-organic frameworks for precise inclusion of single-stranded DNA and transfection in immune cells. <i>Nature Communications</i> , <b>2018</b> , 9, 1293	17.4	113

47	Covalent Organic Frameworks as Favorable Constructs for Photodynamic Therapy. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 14213-14218	16.4	98
46	Designed amyloid fibers as materials for selective carbon dioxide capture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 191-6	11.5	82
45	Mesoporous Cages in Chemically Robust MOFs Created by a Large Number of Vertices with Reduced Connectivity. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 488-496	16.4	75
44	Anisotropic reticular chemistry. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 764-779	73.3	72
43	Isotherms of individual pores by gas adsorption crystallography. <i>Nature Chemistry</i> , <b>2019</b> , 11, 562-570	17.6	64
42	Metal-Organic Frameworks for High Charge-Discharge Rates in Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3980-3985	3.6	55
41	Metal-Organic Frameworks for the Exploitation of Distance between Active Sites in Efficient Photocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 5326-5331	16.4	53
40	25 Years of Reticular Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23946-23974	16.4	50
39	Recent progress in scanning electron microscopy for the characterization of fine structural details of nano materials. <i>Progress in Solid State Chemistry</i> , <b>2014</b> , 42, 1-21	8	42
38	Nanoscale Laser Metallurgy and Patterning in Air Using MOFs. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 5481-5489	16.4	41
37	Covalent Organic Framework for Efficient Two-Photon Absorption. <i>Matter</i> , <b>2020</b> , 2, 1049-1063	12.7	36
36	Molecular Vise Approach to Create Metal-Binding Sites in MOFs and Detection of Biomarkers. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 7120-7125	16.4	34
35	Heterogeneity of functional groups in a metal-organic framework displays magic number ratios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 5591-6	11.5	32
34	Covalent Organic Frameworks as Favorable Constructs for Photodynamic Therapy. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 14351-14356	3.6	32
33	Metal-Organic Framework for Transparent Electronics. <i>Advanced Science</i> , <b>2020</b> , 7, 1903003	13.6	30
32	Uniform BiSb Alloy Nanoparticles Synthesized from MOFs by Laser Metallurgy for Sodium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 335-342	8.3	26
31	Twist and sliding dynamics between interpenetrated frames in Ti-MOF revealing high proton conductivity. <i>Chemical Science</i> , <b>2020</b> , 11, 3978-3985	9.4	24
30	Graphene-Metal-Metastructure Monolith via Laser Shock-Induced Thermochemical Stitching of MOF Crystals. <i>Matter</i> , <b>2020</b> , 2, 1535-1549	12.7	22

29	Facile Synthesis of Uniform Metal Carbide Nanoparticles from Metal-Organic Frameworks by Laser Metallurgy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44573-44581	9.5	19
28	Efficient Separation of Nucleic Acids with Different Secondary Structures by Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 5049-5059	16.4	18
27	Three-Dimensional Hierarchical Constructs of MOF-on-Reduced Graphene Oxide for Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 3577-3582	4.5	18
26	Engineering Multienzyme-mimicking Covalent Organic Frameworks as Pyroptosis Inducers for Boosting Antitumor Immunity.. <i>Advanced Materials</i> , <b>2021</b> , e2108174	24	18
25	Molecularly Defined Interface Created by Porous Polymeric Networks on Gold Surface for Concerted and Selective CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17277-17283	8.3	17
24	Local Structure Evolvement in MOF Single Crystals Unveiled by Scanning Transmission Electron Microscopy. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4966-4972	9.6	16
23	Molecular Vises for Precisely Positioning Ligands near Catalytic Metal Centers in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16182-16187	16.4	15
22	Two-Photon Absorption Induced Cancer Immunotherapy Using Covalent Organic Frameworks. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103056	15.6	14
21	Hyperpolarized Xe NMR signal advancement by metal-organic framework entrapment in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 17558-17563	11.5	13
20	Molecular Vise Approach to Create Metal-Binding Sites in MOFs and Detection of Biomarkers. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 7238-7243	3.6	13
19	Isolated Interaction Sites in Mesoporous MOF Backbone for Repetitive and Reversible Dynamics in Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 973-981	9.5	12
18	Covalent organic frameworks for optical applications. <i>Aggregate</i> , <b>2021</b> , 2, e24	22.9	10
17	Multivariate MOFs for laser writing of alloy nanoparticle patterns. <i>Chemical Communications</i> , <b>2020</b> , 56, 2715-2718	5.8	9
16	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 21419-21424	16.4	9
15	Metal-Organic Frameworks for the Exploitation of Distance between Active Sites in Efficient Photocatalysis. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5364-5369	3.6	8
14	Three-Dimensional Covalent Organic Frameworks with Cross-Linked Pores for Efficient Cancer Immunotherapy. <i>Nano Letters</i> , <b>2021</b> , 21, 7979-7988	11.5	7
13	Immune-based mutation classification enables neoantigen prioritization and immune feature discovery in cancer immunotherapy. <i>OncotImmunology</i> , <b>2021</b> , 10, 1868130	7.2	6
12	Design Rules for Metal-Organic Framework Stability in High-Pressure Hydrogen Environments. <i>ChemPhysChem</i> , <b>2019</b> , 20, 1305-1310	3.2	5

11	Reticulation of 2D Semiconductors by Metal-Organic Approach for Efficient Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8102-8110	8.3	5
10	Sequence control of metals in MOF by coordination number precoding for electrocatalytic oxygen evolution. <i>Chem Catalysis</i> , <b>2021</b> ,		5
9	Staggered Stacking Covalent Organic Frameworks for Boosting Cancer Immunotherapy. <i>Advanced Functional Materials</i> , <b>2021</b> , 32, 2101542	15.6	5
8	Long excited state lifetime of thermally activated delayed fluorescent photosensitizer integrated into Metal-organic framework enables efficient CO <sub>2</sub> photoreduction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 431, 133897	14.7	2
7	Innenteilbild: Metal-Organic Frameworks for High Charge-Discharge Rates in Lithium-Sulfur Batteries (Angew. Chem. 15/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3900-3900	3.6	1
6	Two-Photon Absorption Induced Cancer Immunotherapy Using Covalent Organic Frameworks (Adv. Funct. Mater. 42/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170315	15.6	1
5	Enzymatic deamination of the epigenetic nucleoside N <sup>6</sup> -methyladenosine regulates gene expression. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 12048-12068	20.1	0
4	Structures and Structural Evolution of Sublayer Surfaces of Metal-Organic Frameworks. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 21603-21608	3.6	0
3	25 Jahre retikuläre Chemie. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 24142	3.6	0
2	A laser metallurgy route for the batch preparation of mm-scale 3D silver/graphite heteronanostructures in air. <i>Nanoscale</i> , <b>2020</b> , 12, 24054-24061	7.7	
1	Laser driven conversion of MOFs to rare earth metal oxide nanoparticles. <i>APL Materials</i> , <b>2022</b> , 10, 041119	7	